Product Data Sheet

Chemical Properties

- **Product Name:** Elvitegravir (GS-9137)
- **Cas No.:** 697761-98-1
- **M.Wt:** 447.9
- **Formula:** C23H23ClFNO5
- **Synonyms:** Elvitegravir, GS9137
- **Chemical Name:** 6-[(3-chloro-2-fluorophenyl)methyl]-1-[(2S)-1-hydroxy-3-methylbutan-2-yl]-7-methoxy-4-oxoquinoline-3-carboxylic acid
- **Canonical SMILES:** CC(C(C)C(O)N1C=C(C(=O)C2=CC(=C(C=C21)OC)CC3=C(C(=CC=C3)Cl)F)C(=O)O
- **Solubility:** \( \geq 20.35 \text{ mg/mL in DMSO}, <2.65 \text{ mg/mL in EtOH}, <2.45 \text{ mg/mL in H}_2\text{O} \)
- **Storage:** Store at -20°C
- **General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
- **Shopping Condition:** Evaluation sample solution: ship with blue ice
  All other available size: ship with RT, or blue ice upon request

Biological Activity

- **Targets:** Proteases
- **Pathways:** HIV Integrase
- **Description:**

Elvitegravir (also known as GS-9137 or JTK-303), a monoketo acid modified from the distinct diketo acid moiety (DKA) motif, is a potent inhibitor of human immunodeficiency virus type I (HIV-1) integrase, an enzyme integrating the viral DNA into the cellular DNA of the host during HIV replication. Elvitegravir inhibits the function of HIV-1 integrase through blocking viral DNA
strand transfer and integration, which prevents the replication of HIV and subsequently allows viral DNA to be metabolized by cellular enzymes. Multiple studies indicate that elvitegravir not only inhibits the replication of a variety of subtypes of HIV-1 but also exhibits antiviral activity against murine leukemia virus (MLV) and simian immunodeficiency virus (SIV).

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.